

WHAT IS CLAIMED IS:

1. An image processing condition setting apparatus for determining an image processing condition defining contents of an image processing to set up the image processing condition to an image processing apparatus for executing the image processing in accordance with the determined image processing condition, said image processing condition setting apparatus comprising:

10 an image obtaining section for obtaining an image according to an original image to be subjected to an image processing in said image processing apparatus;

15 an initial image processing condition determination section for determining an initial image processing condition in accordance with the image obtained by said image obtaining section;

20 an image processing condition determination section for determining in accordance with an operation an image processing condition having a desired deviation from the initial image processing condition determined by said initial image processing condition determination section; and

25 an image processing condition setting section for setting up the image processing condition determined by said image processing condition determination section to said image processing apparatus.

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2. An image processing condition setting apparatus according to claim 1, further comprising an association defining section defining an association between parameter values of a first parameter in which
5 values applied to points on a predetermined path in a parameter space defined by a plurality of sorts of second parameters defining a deviation from the initial image processing condition, of the image processing condition, are given as parameter values, and combinations of parameter values of said plurality of sorts of second
10 parameters corresponding to the points on the predetermined path,

wherein said image processing condition determination section is designated by the parameter values of the first parameter in accordance with an operation, and determines, referring to the association defined by said association defining section, the image processing condition having the deviation consisting of the combinations of parameter values of said plurality of sorts of second parameters, associated with the designated
15 parameter values.

3. An image processing condition setting apparatus according to claim 2, wherein said association defining section is a storage section for storing a table
25 in which the association is described.

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4. An image processing condition setting apparatus according to claim 2, wherein said association defining section is a storage section for storing a functional formula of parameter values of the second parameter wherein parameter values of the first parameter are given in form of argument.

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10 5. An image processing condition setting apparatus according to claim 1, further comprising a first storage section for storing a deviation of the image processing condition determined by said image processing condition determination section from the initial image processing condition determined by said initial image processing condition determination section.

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10 6. An image processing condition setting apparatus according to claim 2, further comprising a second storage section for storing parameter values of the first parameter representative of a deviation of the image processing condition determined by said image processing condition determination section from the initial image processing condition determined by said initial image processing condition determination section.

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25 7. An image processing condition setting apparatus according to claim 1, further comprising a display section for displaying a handler for a deviation

adjustment from the initial image processing condition determined by said initial image processing condition determination section,

wherein said image processing condition

5 determination section recognizes a desired deviation upon receipt of an operation of the displayed handler and determines the image processing condition having a desired deviation from the initial image processing condition.

10 8. An image processing condition setting apparatus according to claim 1, wherein said image processing condition determination section produces a plurality of images by a plurality of image processing based on the image processing condition having deviations mutually different on the image processing conditions for the initial image processing condition determined by said initial image processing condition, and determines the image processing condition of the desired image upon receipt of designation of a desired image of the plurality 15 of images, in accordance with an operation.

20 9. An image processing condition setting apparatus according to claim 2, wherein said association defining section defines the association on a plurality of sorts of first parameter for a plurality of paths mutually 25 different in the parameter space,

said image processing condition setting apparatus

further comprises a parameter selection section for selecting at a time a sort of first parameter from among the plurality of sorts of first parameter in accordance with an operation, and

5 said image processing condition determination section produces a plurality of images subjected to an image processing based on the image processing condition for the parameter values of the first parameter selected by said parameter selection section, for the initial image processing condition determined by said initial image processing condition, and determines the image processing condition of the desired image upon receipt of designation of a desired image of the plurality of images, in accordance with an operation.

10 15 10. An image processing condition setting apparatus according to claim 2, wherein said association defining section defines the association on a plurality of sorts of first parameter for a plurality of paths mutually different in the parameter space,

20 25 said image processing condition setting apparatus further comprises a parameter selection section for selecting simultaneously two sorts of first parameter from among the plurality of sorts of first parameter in accordance with an operation, and

 said image processing condition determination section produces a plurality of images subjected to an

image processing based on the image processing condition
for sets of the parameter values of the two sorts of first
parameters selected by said parameter selection section,
for the initial image processing condition determined by
5 said initial image processing condition, and determines the
image processing condition of the desired image upon
receipt of designation of a desired image of the plurality
of images, in accordance with an operation.

10 11. An image processing condition setting
apparatus according to claim 10, wherein said image
processing condition setting apparatus further comprises a
display section for displaying the plurality of images
produced by said image processing condition determination
section on a two-dimensional basis in accordance with the
15 parameter values of the two sorts of first parameters.

15 12. An image processing condition setting
apparatus according to claim 1, wherein said image
processing condition setting apparatus further comprises:
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25 an image processing section for performing an
image processing for the image obtained by said image
obtaining section in accordance with the initial image
processing condition determined by said the initial image
processing condition determination section;

 a display section for displaying a handler for a
deviation adjustment from the initial image processing

condition determined by said initial image processing
condition determination section and an image subjected to
the image processing by said image processing section, and
an indication section for indicating a microscopic
area on the image displayed on said display section in
accordance an operation,

wherein said image processing condition
determination section recognizes a desired deviation as to
the microscopic area on the image indicated by said
indication section in accordance with an operation of said
handler and determines the image processing condition in
which the desired deviation is reflected on the microscopic
area.

13. An image processing condition setting program
storage medium storing an image processing condition
setting program, wherein when the image processing
condition setting program is executed by a computer system,
said computer system serves as an image processing
condition setting apparatus for determining an image
processing condition defining contents of an image
processing to set up the image processing condition to an
image processing apparatus for executing the image
processing in accordance with the determined image
processing condition, said image processing condition
setting program comprising:

an image obtaining section for obtaining an image

according to an original image to be subjected to an image processing in said image processing apparatus;

an initial image processing condition determination section for determining an initial image processing condition in accordance with the image obtained by said image obtaining section;

an image processing condition determination section for determining in accordance with an operation an image processing condition having a desired deviation from the initial image processing condition determined by said initial image processing condition determination section; and

an image processing condition setting section for setting up the image processing condition determined by said image processing condition determination section to said image processing apparatus.